



# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

WIZ060-066-071

**Ozaukee - Milwaukee - Racine**

**05 1100CST 0 0 0 Heavy Snow**  
**06 1900CST**

Fluffy lake-effect snow accumulated up to 7.5 inches over Southeast Wisconsin. The Milwaukee Airport picked up 7.5 inches followed by 6.3 in the city of Racine and 6.0 at Cedar Grove (Ozaukee county). The snow shower intensity forced a temporary closure of one main runway at Milwaukee. About 100 vehicle accidents were reported due to slippery roads.

WIZ070

**Walworth**

**09 0500CST 1 0 0 Cold Temperature**  
**0900CST**

Cold temperatures around the freezing mark resulted in a hypothermia death of an elderly man in Elkhorn. He apparently fell out of his wheelchair and could not get back into it. M89OU

WIZ059>060-064>066-069>072

**Washington - Ozaukee - Jefferson - Waukesha - Milwaukee - Rock - Walworth - Racine - Kenosha**

**16 0800CST 0 0 0 Freezing Rain**  
**1130CST**

Freezing rain quickly coated roads, bridges, overpasses, and sidewalks over parts of Southeast and Southcentral Wisconsin. Ice accumulations were about 1/8 inch, however, the glazing resulted in about 300 vehicle accidents. Area hospitals were deluged with indirectly related vehicle or personal injuries. Some ambulance services briefly ran out of ambulances. At least 242 people were hospitalized (indirectly related to glazing).

**Waukesha County**

**Merton**

**17 0440CST 0 0 15K Lightning**

Lightning struck a home, starting a roof fire. Curtains in the home caught on fire, and several electrical outlets were blown out of the walls.

WIZ070

**Walworth**

**18 0500CST 1 0 0 Cold Temperature**  
**0900CST**

Cold temperatures in the single digits resulted in a hypothermia death of an elderly Elkhorn man. M88OU

WIZ071

**Racine**

**18 1230CST 0 0 Flood**  
**19 0400CST**

A rapid warm-up along with light to moderate rain brought some rapid rises and minor low-land flooding to Southeast Wisconsin. Temperatures in the 50s melted almost all of the existing snowcover. The Root River at Raymond (Racine county) crested at 8.42 feet at 1805CST on the 18th, or .42 feet above flood stage.

WIZ072

**Kenosha**

**19 1445CST 0 0 Flood**  
**2345CST**

A rapid warm-up along with light to moderate rain brought some rapid rises and minor low-land flooding to some rivers in Southeast Wisconsin. Temperatures jumped into the 50s, resulting in rapid melting of almost all of the existing snowcover. At New Munster on the Fox River in Kenosha county, there was a crest of 10.07 feet at 1900CST on the 19th, or .07 feet over flood stage

WIZ056>058-063>066-069>072

**Sauk - Columbia - Dodge - Dane - Jefferson - Waukesha - Milwaukee - Rock - Walworth - Racine - Kenosha**

**23 0400CST 0 0 0 Freezing Rain**  
**1300CST**

Over Southcentral and Southeast Wisconsin a mixture of freezing rain and a snow accumulation of 1 to 4 inches made road surfaces extremely slippery. At least 100 vehicle accidents were reported. In Kenosha county 12 people were briefly hospitalized (indirectly related glazing). Many schools delayed the start classes by a couple hours.



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### WISCONSIN, Southeast

**WIZ051>052-059>060**      **Fond Du Lac - Sheboygan - Washington - Ozaukee**  
**23**      **0900CST**      **0**      **0**      **0**      **Heavy Snow**  
                 **1500CST**

A convective-like heavy snow affected a small part of Eastcentral Wisconsin and left accumulations of 6 inches or more. Sheboygan and Random Lake, both in Sheboygan county, gathered 6.5 inches. Six inches fell at Dundee (Fond du Lac county), in West Bend (Washington county), and over the far northwest corner of Ozaukee county. About 50 vehicle accidents were reported. Two people in Fond du Lac county were briefly hospitalized (indirectly related to heavy snow) due to a vehicle accident

**WIZ046>047-051>052**      **Marquette - Green Lake - Fond Du Lac - Sheboygan**  
**25**      **1200CST**      **0**      **0**      **Heavy Snow**  
                 **2000CST**

A fast-moving low pressure system dumped heavy snow in a swath across Central and Eastcentral Wisconsin. Eight inches of snow accumulated at Fond du Lac (Fond du Lac county), and near Greenbush (Sheboygan county). Further west, up to 6 to 7 inches were reported at Berlin (Green Lake county) and Neshkoro (Marquette county). At least 80 vehicle accidents resulted from the slippery roads and 6 people were briefly hospitalized due to associated injuries (indirectly related to glazing event)

**WIZ046>047-051>052-056>060-062>065-067>069**      **Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Lafayette - Green - Rock**  
**26**      **0000CST**      **0**      **0**      **0**      **Heavy Snow**  
**27**      **0400CST**

A major winter storm deposited heavy snow over Southcentral and parts of Southeast Wisconsin. For some counties it was the worst storm in many years. Snowfalls reported include 15 inches at Berlin and Markesan (Green Lake county); 14 inches at Marshall (Dane county); 13.4 inches in Madison (Dane county); 12 inches in Dodgeville (Iowa county), Wisconsin Dells (Columbia county), Montello (Marquette county), and Plymouth (Sheboygan county); 10 inches at Baraboo (Sauk county), Belmont (Lafayette county), and Fond du Lac (Fond du Lac county); 8.1 inches in Sullivan (Jefferson county) and Sheboygan (Sheboygan county); and 6 inches in Oconomowoc (Waukesha county) and Janesville (Rock county)

The snow became convective as lightning and thunder put on a show in the afternoon hours. Snowfall rates peaked at 3 to 4 inches per hour, with Madison gathering 8 inches in only 2 hours! Coupled with northeast to northwest winds gusting to 40 mph this snowfall rate lowered visibilities to near zero at times. Snowplow crews were pulled off the roads in many areas by 1900CST. There were at least 800 vehicle accidents (indirectly related to the storm), and 6 people were briefly hospitalized. Airplane flights were delayed several hours. Interstate 90/94 was closed in stretches around Madison. Scattered power outages resulted in about 500 customers losing electricity in the Sheboygan to Milwaukee area. Many schools canceled classes, or dismissed students early; and many evening high school basketball games were canceled.

**WIZ046>047-051>052-056>060-062>072**      **Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**  
**29**      **0500CST**      **0**      **0**      **0**      **Blizzard**  
                 **1600CST**

A rare, widespread ground blizzard tormented Southcentral and Southeast Wisconsin with the worst whiteout conditions ever experienced by some residents and travelers. Some drivers described it as "driving into a ball of cotton." The whiteout conditions occurred primarily in open, exposed areas. A fresh snowcover of 1 to 3 inches on top of an older cover of 6 to 20 inches was easily blown around by winds frequently gusting over 35 mph. Otherwise, bright sunshine was the rule in villages and urban areas where visibilities never went below 1.5 miles. The peak wind gusts was 54 mph in Waukesha (Waukesha county), while everyone else had gusts into the 40 to 49 mph range. There was an unofficial gust to 60 mph (52 knots) on an exposed ridge near Pewaukee (Waukesha county).

Several hundred vehicle accidents resulted, with the worst one being two 14-vehicle accidents along the same stretch of I-94 in



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January 1996

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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

### WISCONSIN, Southeast

Racine county. At least 33 people were briefly hospitalized because of the accidents (indirectly related to ground blizzard). Portions of the Interstates and other highways were closed from time to time. Many schools delayed their opening times or canceled classes. Service stations and police/sheriff dispatchers were overwhelmed.

WIZ046>047-051>052-  
056>060-062>072

**Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

30	0200CST 2359CST	2	0	0	Extreme Windchill
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After the previous day's ground blizzard, very cold arctic air poured into Southern Wisconsin on northwest winds of 10 to 25 mph. Wind chills dropped to 35 to 45 below zero. Maximum temperatures only made it to 3 above zero in Milwaukee (Milwaukee county) after overnight lows across Southern Wisconsin of 5 below to 15 below. There was one directly-related hypothermia death in both Kenosha and Lafayette counties. There was an indirectly-related death in Sheboygan county. M85OU, M31OU

WIZ046>047-051>052-  
056>060-062>072

**Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

31	0000CST 2359CST	0	10	Extreme Cold
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Arctic air continued to pour into Southern Wisconsin on northwest winds of 10 to 20 mph. Morning lows dipped to 29 below zero in Monroe (Green county), 23 below in Plymouth (Sheboygan county), 21 below in Madison (Dane county), and 20 below zero (a new daily record) in Waukesha (Waukesha county). Wind chills dropped into the 40 below to 60 below range as daytime temperatures never recovered to zero. Ten people were treated in hospitals for frostbite injuries: one in Sheboygan county, 7 in Milwaukee county, and 2 in Racine county. Service stations were overwhelmed with calls for assistance, and hardware stores reported a booming business due to the demand for space heaters, snow blowers, and other cold-weather gear.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



February 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

**WIZ046>047-051>052-056>060-062>072**      **Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

<b>01</b>	<b>0000CST</b>	<b>4</b>	<b>18</b>	<b>Extreme Cold</b>
<b>04</b>	<b>2359CST</b>			

The episode of extreme cold, which started in late January, 1996, continued through the first four days of February across Southcentral and Southeast Wisconsin. Ending on the 4th, Milwaukee had a string of 73 hours below zero, while Madison registered 177 hours below the zero mark. Adding to the misery, wind chills were in the minus 35 to minus 60 degree range many times during this event. There were 4 cold-weather hypothermia deaths reported in Milwaukee county. In addition... 18 people sustained frostbite injuries... 15 of them in Milwaukee county. Numerous water main pipes burst, and fiber optic cables froze... disrupting telephone service. Schools were closed on the 2nd, and 8000 homes in Southeast Wisconsin lost electrical service on the 2nd as power companies cut back on output. Service stations and the AAA were overwhelmed with requests for assistance.

New minimum temperature records follow: -26 in the city of Fond du Lac (daily record) on the 2nd, -24 in the city of Waukesha (new Feb record) on the 2nd, -20 in the city of Milwaukee (daily record) on the 2nd, -29 in West Bend (all-time record anytime) on the 3rd, -29 in Madison (new Feb record) on the 3rd, -25 in Sheboygan (tied Feb record) on the 3rd, -23 in the city of Racine (daily record) on the 3rd, -26 in the city Milwaukee (new daily record and tied all-time record anytime) on the 3rd, and -19 in the city of Milwaukee (daily record) on the 4th. F21OT, F35OT, M74PH, M26OU

**WIZ068**

**Green**

<b>10</b>	<b>1545CST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
<b>14</b>	<b>0200CST</b>			

A combination of melting snow and light rain coupled with ice action caused minor lowland flooding along the Pecatonica River in the vicinity of Martintown. The river level at this location crested at 11.86 feet on Feb 10th at 2230CST, or .86 feet above flood stage.

**WIZ068**

**Green**

<b>12</b>	<b>0400CST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
<b>13</b>	<b>1800CST</b>			

A combination of melting snow and light rain coupled with ice action caused minor lowland flooding along the Sugar River in the vicinity of Broadhead. The river level at this location crested at 5.45 feet at 1905CST on Feb 12th, or .45 feet above flood stage

**WIZ060**

**Ozaukee**

<b>27</b>	<b>1330CST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
<b>29</b>	<b>1800CST</b>			

A melting snow cover and light rain event developed on Feb 26th, resulting in minor lowland flooding on the Milwaukee River in the vicinity of Cedarburg. The river at this location crested at 10.12 feet at 0115CST on Feb 28th, or .12 feet above flood stage.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



March 1996

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

### WISCONSIN, Southeast

WIZ071>072

**Racine - Kenosha**

**20**

**0200CST**

**0**

**1**

**33K**

**High Wind**

**0600CST**

High winds (from the north/northeast, and possibly enhanced by less frictional drag over Lake Michigan) swept the Southeast part of Wisconsin and resulted in scattered areas of damage. In Kenosha county (\$32000 in damage) the powerful winds peeled off a 40 ft. by 75 ft. section of an apartment's wooden roof, and a 1200 sq. ft. roof section of a lawn and garden business, both in the city of Kenosha. Also in Kenosha county, the winds blew a pickup truck into a tree, injuring the driver; as well as blowing a street light into a passing car. In the southeast corner of Racine county the powerful winds damaged a business's ID sign (\$1000). The winds were estimated to be in the 60 mph range. Wave heights along the nearshore area of Lake Michigan were up to 13 feet high.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



April 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

#### Jefferson County

**Ixonia**      **11**      **2330CST**      **0**      **0**      **Lightning**  
Lightning struck a home in Ixonia causing extensive electrical damage to the home's appliances, TV, and PC. Siding was also torn off the home.

#### Jefferson County

**1 E Watertown**      **11**      **2330CST**      **0**      **0**      **Lightning**  
Lightning hit a home just east of Watertown, for the second time in two years. Damage was done to the garage door opener, antenna, and the garage cement floor.

#### Rock County

**Janesville**      **14**      **1940CST**      **0**      **0**      **7K**      **0**      **Lightning**  
Lightning struck a home and started a fire that damaged its roof.

#### Kenosha County

**Twin Lakes**      **14**      **2005CST**      **0**      **1**      **Lightning**  
Lightning struck a home, traveled down a pipe, and then struck and injured a male teenager leaning against the home.

#### WIZ059

#### Washington

**15**      **0000CST**      **0**      **0**      **0**      **0**      **Heavy Snow**  
**0700CST**  
Heavy snow accumulated to 6.6 inches in the city of West Bend. The snow caused numerous vehicles to slide into roadside ditches. Local road construction was delayed.

#### Jefferson County

**1 W Busseyville**      **18**      **1845CST**      **0**      **0**      **0.50K**      **Thunderstorm Wind**  
Powerful thunderstorm winds damaged a shed and playground set.

#### Jefferson County

**3.6 SE Sullivan**      **18**      **1910CST**      **0**      **0**      **Thunderstorm Wind (G54)**

#### Green County

**4 E Juda**      **19**      **2045CST**      **0**      **0**      **Hail (1.75)**

#### Rock County

**Beloit**      **19**      **2100CST**      **0**      **0**      **Hail (1.75)**

#### Rock County

**Beloit**      **19**      **2130CST**      **0**      **0**      **800K**      **Thunderstorm Wind**  
Powerful downburst thunderstorm winds extensively damaged Beloit's City Hall, the Waste Treatment Plant, and other buildings. Many trees were felled. Eight miles east of Beloit a barn and its equipment were severely damaged, and 14 cows were killed.

#### Rock County

**3 E Clinton**      **19**      **2140CST**      **0**      **0**      **5K**      **Thunderstorm Wind**  
Powerful downburst thunderstorm winds knocked over many large trees.

#### Walworth County

**Sharon**      **19**      **2148CST**      **0**      **0**      **300K**      **Thunderstorm Wind**  
Many large trees or tree branches were toppled in and around Sharon as the bow echo and its damaging winds moved out of Rock county and into Walworth county. West of Sharon two large grain bins were either blown over or damaged, and several sheds were damaged. Northwest of Sharon near the village of Allens Grove a large barn was destroyed and two cows inside were killed. Some large trees were also toppled east of Sharon on the west side of the village of Walworth

#### Walworth County

**Genoa City**      **19**      **2201CST**      **0**      **0**      **10K**      **Thunderstorm Wind**  
As the bow echo moved rapidly east, powerful downburst winds removed a sunroom from a Genoa City home, and peeled off a 20 foot section of the home's roof. A local business's large plate window was also blown in. Numerous large trees were pushed over in and near Genoa City by the strong winds.



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## Storm Data and Unusual Weather Phenomena



April 1996

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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

### WISCONSIN, Southeast

#### Kenosha County

##### Twin Lakes

19 2204CST 0 0 700K Thunderstorm Wind

The Walworth county bow echo moved into Kenosha county and continued to generate downbursts with damaging winds. Dozens of large trees were toppled around Twin Lakes, and a summer cottage was flattened. A missionary building in Twin Lakes was destroyed. East of Twin Lakes on the way to Wilmot several barns, machine sheds, and mobile homes were damaged or leveled.

#### Kenosha County

##### Pleasant Prairie

19 2222CST 0 0 1.1M Thunderstorm Wind

As the bow echo tore east/northeast through Kenosha county on the way to Pleasant Prairie, its powerful west/southwest winds, estimated to be 80 to 100 mph, leveled or damaged several more barns and machine sheds. In addition, major building damage was sustained at St. Benedicts Abby on Benet Lake. The city of Pleasant Prairie was hard hit as many buildings sustained damage, and numerous large trees were pushed over. The storm continued through the south part of the city of Kenosha, pushing some cars sideways, pulling down power lines, and felling large trees. In scattered spots along the damage path, small hail accumulated to a depth of 6 to 12 inches. On the backside of the bow echo there were numerous reports of an easterly wind gust of 40 to 50 mph.

#### Racine County

##### Burlington

19 2226CST 0 0 Hail (0.75)

#### Racine County

##### Racine

19 2245CST 0 0 5K Thunderstorm Wind

On the north side of the bow echo the powerful winds toppled a large tree onto a house, damaging its siding and roof, and tore many large limbs out of neighborhood trees.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### WISCONSIN, Southeast

#### Kenosha County

<b>Kenosha</b>	<b>11</b>	<b>0230CST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Lightning</b>
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Lightning hit a transformer near Forest Park Elementary School and damaged an underground electrical cable feeding the school.

#### Dane County

<b>Mazomanie</b>	<b>16</b>	<b>1245CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Lightning</b>
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Lightning struck a Mazomanie church steeple, started a fire, and damaged the church's organ and speakers. Elsewhere in town lightning struck a home's roof and started a brief fire.

#### WIZ060

<b>Ozaukee</b>									
	<b>17</b>	<b>0730CST 1230CST</b>			<b>0</b>	<b>0</b>			<b>Fog</b>

Very dense fog reduced visibilities to 100 feet or less, forcing the closing of Interstate 43 northbound traffic from Saukville to Port Washington for 4.5 hours. A 15 vehicle accident triggered the closure.

#### Sauk County

<b>La Valle</b>	<b>18</b>	<b>0220CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.75)</b>
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#### WIZ072

<b>Kenosha</b>									
	<b>19</b>	<b>2300CST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
	<b>20</b>	<b>2000CST</b>							

A steady, but occasionally heavy, rain affect most of Kenosha county and resulted in widespread flooding. Two to 3 inches of rain fell on top of a previously saturated ground. Numerous roads had water over them, and there were numerous washouts of roadside ditches, culverts, and shoulders. The area around and in the villages of Paris and Somers was hard hit. A 15-foot section of a road shoulder collapsed on Highway D south of Highway N, or 3SE of Paris. In some locations near these villages had 5 to 6 feet of water covering low road spots. In the city of Kenosha the rain officially totaled 2.57 inches. Throughout the county there were numerous reports of water in basements, and sewers backing up. Unofficially there were reports of 4 inch rain totals.

#### WIZ071

<b>Racine</b>									
	<b>19</b>	<b>2300CST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
	<b>20</b>	<b>2000CST</b>							

An all-day rain, peaking with a late afternoon 2 inch downpour in less than 2 hours, resulted in widespread flooding across Racine county. The high waters completely covered a stalled automobile west of Elwood, but the driver escaped harm. Total rainfall for the day was around 3 inches. Many county roads had 1 to 2 feet of water on them, and numerous basements had a couple feet of in them. From time to time, scattered stretches of county roads were closed.





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June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<b><u>WISCONSIN, Southeast</u></b>							
<b>Walworth County</b> <b>Millard</b>	02	1655CST			0 0	1K	<b>Thunderstorm Wind</b> Powerful thunderstorm winds cracked numerous large tree branches out of large trees in the Millard area
<b>Milwaukee County</b> <b>Brown Deer</b>	02	1658CST			0 0	3K	<b>Thunderstorm Wind</b> Powerful thunderstorm winds blew down several large trees in the park near the Milwaukee River
<b>Waukesha County</b> <b>Elm Grove</b>	02	1700CST			0 0	10K	<b>Lightning</b> Lightning struck a home, blew 3 holes in the roof, and damaged the furnace and TV.
<b>Rock County</b> <b>8 NW Beloit</b>	02	1715CST			0 0	5K	<b>Thunderstorm Wind</b> Powerful thunderstorm winds blew down numerous large trees northwest of Beloit.
<b>Walworth County</b> <b>1.3 NW Delavan</b>	02	1718CST			0 0	10K	<b>Thunderstorm Wind</b> Powerful thunderstorm winds knocked down large trees and power lines northwest of Delavan
<b>Rock County</b> <b>Emerald Grove</b>	02	1725CST			0 0	2K	<b>Thunderstorm Wind</b> Powerful thunderstorm winds broke numerous large tree branches out of trees in the Emerald Grove area.
<b>Marquette County</b> <b>Montello</b>	02	1735CST			0 0		<b>Funnel Cloud</b>
<b>Racine County</b> <b>Ives Grove</b>	02	1739CST			0 0		<b>Hail (1.00)</b>
<b>Walworth County</b> <b>Walworth</b>	02	1745CST			0 0	0.30K	<b>Thunderstorm Wind</b> Intense thunderstorms knocked many large tree branches out of trees in the village of Walworth
<b>Waukesha County</b> <b>Oconomowoc</b>	02	1745CST			0 0	30K	<b>Lightning</b> Lightning struck a home and started a fire that destroyed much of the roof, and contents in the attic
<b>Walworth County</b> <b>3.5 W Troy Center</b>	02	1823CST			0 0	10K	<b>Thunderstorm Wind</b> Powerful thunderstorm winds toppled several large trees and some power lines west of Troy Center near Highway 20
<b>Dodge County</b> <b>2.5 NE Horicon</b>	02	1850CST			0 0	20K	<b>Thunderstorm Wind</b> Powerful thunderstorm winds blew over a pole barn midway between Horicon and Mayville.
<b>Sheboygan County</b> <b>Sheboygan</b>	06 07	2300CST 0500CST			0 0	10K	<b>Urban/Sml Stream Fld</b> Overnight rains of 2 inches resulted in street and basement flooding, damaging the basement contents in some city homes.
<b>Rock County</b> <b>Beloit</b>	07	0000CST 0100CST			0 0	40K	<b>Flash Flood</b> Heavy rainfalls of around 3 inches in a short period of time resulted in flash flooding of roads in Beloit, and in area creeks and streams. Several road shoulders were washed out, and debris collected and blocked some roads intersections.



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June 1996

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### WISCONSIN, Southeast

**WIZ059**

**Washington**

<b>07</b>	<b>0030CST</b>				<b>0</b>	<b>0</b>	<b>20K</b>		<b>Flood</b>
	<b>0800CST</b>								

A 24 hour rainfall total of 2.21 inches resulted in serious flooding of Cedar Creek in the city of Jackson. A garden center sustained structural damage and had many plants destroyed.

**WIZ059**

**Washington**

<b>07</b>	<b>0930CST</b>				<b>0</b>	<b>0</b>	<b>50K</b>	<b>500K</b>	<b>Flood</b>
	<b>1200CST</b>								

Overnight heavy rains of around 2 inches on top of a saturated ground resulted in flooding damage in the Township of Farmington, or 2 miles southeast of Boltonville. Highway shoulders were washed out as roads became covered with water. Resident and business flooding was also noted in Slinger and Jackson. Rural areas had some soil erosion and crop damage.

**Sauk County**

**2.2 W Hillpoint**

<b>17</b>	<b>0000CST</b>				<b>0</b>	<b>0</b>	<b>500K</b>		<b>Flash Flood</b>
	<b>0145CST</b>								

Heavy rains produced flash flooding of the Narrows Creek headwaters. Nearby crops were washed out and there were mudslides. Driveways and a portion of a nearby road were flooded over by fast moving waters about 1 to 2 feet deep.

**WIZ056**

**Sauk**

<b>17</b>	<b>0100CST</b>				<b>0</b>	<b>0</b>	<b>75K</b>		<b>Flood</b>
	<b>0330CST</b>								

Heavy rains overnight produced flooding over Highway 154 near Hillpoint. Water depths reached 1 foot over the road which was closed for a couple hours. Some of the road shoulder washed out. Resident basements flooded.

**Dane County**

**Monona**

<b>17</b>	<b>0130CST</b>				<b>0</b>	<b>0</b>	<b>1.6M</b>		<b>Flash Flood</b>
	<b>0400CST</b>								

Blinding rainfalls of 2 to 3 inches in the pre-dawn hours on top of a saturated ground in the highly urbanized city of Monona resulted in flash flooding. Water depths reached 3 to 4 feet on some roads. Shoulder washouts were noted, as well as block storm sewers, and piles of debris on some roads. Basements and businesses sustained flood damage to their contents. In next door Madison, the historical Barrymore theater sustained damage when a wall collapsed due to pressure from flood waters.

**Sauk County**

**1.3 SW Valton**

<b>17</b>	<b>0210CST</b>				<b>0</b>	<b>0</b>	<b>120K</b>		<b>Flash Flood</b>
	<b>0330CST</b>								

Heavy rains produced flash flooding on a country road near Valton. A bridge was washed out along with culverts.

**Green County**

**Monroe**

<b>17</b>	<b>0230CST</b>				<b>0</b>	<b>0</b>	<b>30K</b>		<b>Flash Flood</b>
	<b>0500CST</b>								

Heavy rainfalls of 4.8 inches resulted in flash flooding in and around Monroe. Buildings in low lying areas were damaged, there were road shoulder washouts, and serious soil erosion.

**Sauk County**

**Ironton**

<b>17</b>	<b>0230CST</b>				<b>0</b>	<b>0</b>	<b>170K</b>		<b>Flash Flood</b>
	<b>0400CST</b>								

Heavy rains resulted in flash flooding in and around Ironton. Several roads had shoulder and culvert washouts. Erosion of loose soil was also noted. Businesses and resident basements flooded.

**Rock County**

**1 E Cooksville**

<b>17</b>	<b>0300CST</b>				<b>0</b>	<b>0</b>	<b>150K</b>	<b>2M</b>	<b>Flash Flood</b>
	<b>0500CST</b>								

Heavy rainfalls of 4 to 5 inches in the early morning hours resulted in flash flooding of roads and fields east of Cooksville. Road shoulders were washed out, and there was serious soil erosion to farm fields. There was also some washouts under a bridge.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

and railroad tracks in nearby Evansville

**WIZ065**

**Waukesha**

<b>17</b>	<b>0300CST</b>	<b>0</b>	<b>0</b>	<b>25K</b>	<b>1M</b>	<b>Flood</b>
	<b>0700CST</b>					

Heavy rains of 2 to 3 inches in the 24 hour period ending at 0500CST on the 17th resulted in closure of Highway 59 on the west side of the city of Waukesha. Water covered the road to a depth of 1 to 2 feet. Elsewhere... Oconomowoc Lake exceeded its natural banks due to drainage in its watershed. Nearby parking lots and other lowland grounds were flooded. Rural farm land also sustained some soil erosion and crop damage.

**Green County  
Brodhead**

<b>17</b>	<b>0330CST</b>	<b>0</b>	<b>0</b>	<b>15K</b>	<b>500K</b>	<b>Flash Flood</b>
	<b>0500CST</b>					

Heavy rains of 5.2 inches resulted in flash flooding in and around Broadhead. Homes and businesses sustained damage, and there was serious erosion of farm soils and crops near the city limits. Water reached a depth of 2 to 3 feet over a couple roads which experienced shoulder washouts.

**Green County  
Martintown**

<b>17</b>	<b>0330CST</b>	<b>0</b>	<b>0</b>	<b>15K</b>	<b>2M</b>	<b>Flash Flood</b>
	<b>0500CST</b>					

Heavy rains of 3 inches in short period of time resulted in flash flooding in and around Martintown. Home basements and businesses were flooded. A road experienced a shoulder washout. Serious soil erosion and crop damage occurred in farm fields north of Martintown in the lowlands near the Pecatonica River to northwest of Browntown.

**Columbia County  
Portage**

<b>17</b>	<b>0330CST</b>	<b>0</b>	<b>0</b>	<b>150K</b>		<b>Flash Flood</b>
	<b>0445CST</b>					

Heavy rains of 3.33 inches resulted in flash flooding in and around Portage. A number of roads had shoulder washouts, and there was the usual basement flooding as water levels quickly rose to a couple feet high on some roads

**Waukesha County  
Brookfield**

<b>17</b>	<b>0400CST</b>	<b>0</b>	<b>0</b>	<b>50K</b>		<b>Flash Flood</b>
	<b>0600CST</b>					

A quick 1 inch rainfall in 15 minutes ending at 0430CST in the city of Brookfield, on top of a saturated ground, and previous rainfalls of 1 to 2 inches the day before, resulted in flash flooding. Water quickly covered some roads to a depth of 2 to 3 feet. There was resident basement and first floor flooding, as well as business flooding. Some roads were closed until the water receded

**Jefferson County  
Watertown**

<b>17</b>	<b>0500CST</b>	<b>0</b>	<b>1</b>	<b>400K</b>		<b>Flash Flood</b>
	<b>0630CST</b>					

Heavy rains of 3 to perhaps 6 inches in the pre-dawn hours resulted in flash flooding on the southwest side of Watertown. A 40 foot section of an earthen embankment washed out, leaving railroad tracks suspended in the air. Water pouring through the break did serious damage to 6 homes and 2 businesses, and destroyed one home. One person was injured by the flash flood waters. About 100 homes were affected by flood waters in the city of Watertown, mostly of the basement flooding variety. The Rock river north and south of Watertown also exceeded its flood stage by anywhere from a few inches to perhaps 1 foot or so. Lowland flooding near the river was reported.

**WIZ052**

**Sheboygan**

<b>17</b>	<b>0600CST</b>	<b>0</b>	<b>0</b>	<b>25K</b>		<b>Flood</b>
	<b>0900CST</b>					

Two to 3 inches of rain overnight on top of a saturated ground resulted in high water levels in streams and creeks around the city of Cedar Grove. Water covered roads to a depth of 2 to 5 feet. In one case, an automobile was swept 100 feet down a road and over-turned. The driver escaped uninjured. Basement and business flooding was also reported.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

**WIZ056**

**Sauk**

**17 0700CST 0830CST 0 0 Flood**

Overnight heavy rains resulted in lowland flooding along and near Narrows Creek from Rock Springs upstream about 7 miles. Crops were washed out and there was basement flooding.

**WIZ068**

**Green**

**17 0830CST 1115CST 0 0 5.7M Flood**

Heavy rainfalls of around 5 inches early on the 17th resulted moderate river flooding along the Sugar River and its tributaries north of Broadhead. Lowland flooding washed out or eroded much farm land both upstream and downstream from Broadhead. The river at Broadhead crested at 8.33 feet at 2005CST on the 19th, or 3.33 feet over flood stage. Six township roads were closed thru the 20th.

**Sauk County**

**4 W Prairie Du Sac to  
3.9 W Prairie Du Sac**

**17 1340CST 1341CST 0.1 50 0 0 1K Tornado (F0)**

A weak tornado briefly touched down and damaged a home's garage and a couple windows, and tore off some siding.

**Sauk County**

**2.2 N Prairie Du Sac to  
2.5 N Prairie Du Sac**

**17 1350CST 1352CST 0.5 100 0 0 75K Tornado (F1)**

A tornado destroyed a couple farm sheds, removed a barn's roof, broke windows, damaged machinery, and tore up several trees.

**Sauk County**

**4 S Baraboo**

**17 1400CST 1500CST 0 0 10K Flash Flood**

Heavy rains resulted in flash flooding of streams in the Devil's Lake Park. A trail was washed out, and a bridge sustained minor damage. The rains brought the day totals to around 6 inches.

**Sauk County**

**3.7 S Baraboo**

**17 1410CST 0 0 0.50K Thunderstorm Wind**

Powerful thunderstorm winds pushed over several large trees in Devil's Lake Park.

**WIZ052**

**Sheboygan**

**17 1430CST 1700CST 0 0 110K 15.7M Flood**

Long-duration rains across Sheboygan county resulted in scattered areas of flooded farm fields, basement and business flooding, and flooded roads in low-lying areas. In the city of Sheboygan, Pigeon Creek overflowed its banks and flooded several roads... some which were closed a few hours. Soil erosion and damaged crops were noted in rural areas.

**Sauk County**

**2.8 NW Merrimac**

**17 1530CST 1645CST 0 0 20K 50K Flash Flood**

Heavy rains resulted in quick-rising waters that flooded Highway 113 with 6 to 12 inches of water. The road was closed for a few hours. There was minor road shoulder damage and crop damage.

**WIZ070**

**Walworth**

**17 1700CST 2300CST 0 0 200K 24M Flood**

Heavy rains of 1 to 2 inches on top of a saturated ground due to previous rains, resulted in a slow rise of water levels on rivers, streams, and creeks across Walworth county. Roads, homes, golf courses, and other businesses became flooded. Some bridges on golf courses were swept away as the soils washed away. A few roads were closed for a few hours until the water receded. Rural farm land had the usual soil erosion and damaged crops. Sandbagging also took place in some locations.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

#### Dodge County

1.5 W Astico

17 1815CST 0 0 30K Flash Flood  
2000CST

Short-duration heavy rains of 3 to 5 inches produced flash flooding that covered roads with 2 feet of water, and washed out a couple road shoulders.

#### WIZ063

##### Dane

17 1820CST 0 0 3M 10M Flood  
18 0700CST

Several rounds of heavy rains culminated in widespread rural farm land flooding across Dane county, as well as significant flooding in cities and villages. Flooding of small streams and creeks, and nearby lowland was reported. Several county roads flooded over with 1 to 3 feet of water, and some shoulder washouts and road closures were noted. Soil erosion was very common as farm fields flooded over. Retention ponds in housing developments over-flowed. Some of the larger lakes recorded their highest levels ever, as water poured into them from their drainage basins. For example, Lake Monona and Lake Kegonsa eventually reached new record levels on the 19th, while Lake Mendota came within 1 inch of equalling their all-time high water level. Cities that had significant flooding and damage were Cambridge, Black Earth, Brooklyn, Belleville, Cross Plains, De Forest, and Sun Prairie. Total rainfall from 0500CST on the 16th to 0500CST on the 18th ranged from 4 inches in the far western part of the county to around 8.25 inches in the Stoughton area.

#### WIZ051

##### Fond Du Lac

17 1830CST 0 0 500K 2M Flood  
2100CST

Long duration rains of 3 to 5 inches county-wide since the day before resulted in the Rock river going above flood stage in the Waupan area. Two to 3 inches of that rain fell in a 6 hour period ending 0500CST in the Fond du Lac city area. Resident basement and business flooding was reported county-wide, as well as some soil erosion and crop damage. Sandbagging took place around the city of Fond du Lac.

#### Dane County

Madison

17 1830CST 0 0 4M Flash Flood  
2030CST

Heavy downpours of rain, of 1 to 2 inches, on top of a saturated ground, resulted in flash flooding of roads and highways in the Madison area. Residents remarked that even the "Beltline" on the south end of town flooded over like they've never seen before. Basements, businesses, and golf courses flooded over as water reached 2 to 3 foot depths on some roads. About 1275 homes had varying amounts of flood damage. Storm sewers backed up and debris littered many roads. Washouts of portions of road surfaces or shoulders were reported. Emergency managers noted that this was the worst flash flooding seen in the Madison area for 30 years. For the calendar day of the 17th, 4.51 inches of rain fell at the Madison airport site, making it the wettest June day ever.

#### WIZ058

##### Dodge

17 1900CST 0 0 100K 11M Flood  
2030CST

One inch rainfalls between 1900CST and 2000CST resulted in scattered field and lowland flooding across Dodge county, especially near streams and creeks. Soil erosion and washed out crops were reported. Some roads became blocked, and some minor road shoulder washouts were noted. Total rainfall for the 24 hour period ending at 2000CST ranged from 4 to 5 inches in spots. Estimated crop losses include effects of future lower yields.

#### WIZ071

##### Racine

17 1900CST 0 0 400K 17M Flood  
2330CST

A couple rounds of heavy rains on top of saturated ground resulted in scattered flooding across Racine county. In the city of Racine, 1.5 inches fell between 1930CST and 2000CST on the 17th, while 1.97 inches fell overnight from the 16th to 17th. Many storm



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

sewers became clogged with debris, and many roads then flooded. Flooding of resident basements and businesses was noted. Rural farm land sustained soil erosion and damage to crops. It was the worst farm-land flooding ever seen by some farmers, as some of them completely gave up trying to plant a 1996 crop.

**WIZ066**

#### **Milwaukee**

<b>17</b>	<b>1900CST</b>	<b>0</b>	<b>0</b>	<b>75K</b>		<b>Flood</b>
<b>18</b>	<b>0800CST</b>					

Three-day rainfalls of 3 inches in southern Milwaukee county to over 7 inches in the northern parts on top of a saturated ground resulted in widespread flooding of mainstream rivers, streams, and creeks. Many roads, basements, businesses, and golf courses were flooded, especially in low lands near waterways. Two roads in the city of Oak Creek were closed as several cars stalled in the high water. Concrete headwall washouts were noted on Oak creek in the city of Oak Creek, and on Beaver creek in the city of Brown Deer. Luckily, the forecasted all-time river crests never materialized on the Milwaukee river. Nonetheless, the Milwaukee river did exceed flood stage by 1 to 2 feet in the northern part of the county.

**Dodge County  
Reeseville**

<b>17</b>	<b>1930CST</b>	<b>0</b>	<b>0</b>	<b>100K</b>	<b>1M</b>	<b>Flash Flood</b>
	<b>2015CST</b>					

Quick-hitting heavy rains of 2 to 3 inches on top of a saturated ground resulted in flash flooding of farm fields around Reesville. Several farm sheds were damaged, and a large barn collapsed due to the water pressure.

**WIZ064**

#### **Jefferson**

<b>17</b>	<b>1930CST</b>	<b>0</b>	<b>0</b>	<b>250K</b>	<b>8M</b>	<b>Flood</b>
<b>18</b>	<b>0400CST</b>					

Repeated rounds of heavy rains over a 3-day period resulted in considerable farm field and lowland flooding across Jefferson county. Starting with the 16th, and ending in the morning hours on the 18th, 2 to 6 inches of rain fell on top of saturated ground. The heaviest rains fell over the northwest part of the county. Many small streams and creeks exceeded flood stage, flooding nearby lowlands. Many basements, businesses, and golf courses also reported some kind of flooding. River-bank mudslides and roadside curbing washouts were noted in Ft. Atkinson, while in Waterloo an amusement park's railroad embankment was washed out. Over 60,000 acres of farm land were seriously flooded or eroded; and water remained in some of the flat, mucky soil areas through the end of June. Some farmers in the northwest part of the county said it was the worst flooding they've ever seen.

**Jefferson County  
1.5 W Johnson Creek**

<b>17</b>	<b>2000CST</b>	<b>0</b>	<b>0</b>	<b>150K</b>		<b>Flash Flood</b>
	<b>2200CST</b>					

Additional heavy rains of 1 to 1.5 inches in a couple hours on top of previous rains of 2 to 3.5 inches and a saturated ground resulted in the Rock river flash flooding just west of Johnson Creek. The fast flowing water partially washed out the earthen support of a bridge under the eastbound lane of I-94. Further west, near the border with Dane county, the soil/gravel subsurface under the west-bound lane of I-94 collapsed. This lane was closed to traffic until the next day.

**Ozaukee County  
Port Washington**

<b>17</b>	<b>2000CST</b>	<b>0</b>	<b>0</b>	<b>200K</b>		<b>Flash Flood</b>
	<b>2200CST</b>					

Intense rains of 1 to 2 inches in a couple hours resulted in flash flooding of roads, resident basements, and businesses. Partial washouts of road shoulders were reported, and a couple homes in low spots sustained structural to their foundations due to the force of the water.

**WIZ059**

#### **Washington**

<b>17</b>	<b>2230CST</b>	<b>0</b>	<b>0</b>	<b>450K</b>	<b>2M</b>	<b>Flood</b>
<b>18</b>	<b>0700CST</b>					

Long-duration rainfalls registered 3.21 inches in 24 hours ending at 0600CST on the 18th in the city of West Bend. Two-day rains totaled 4 to 5 inches over many other parts of Washington county. The result was a slow rise in water levels in many rivers, streams, and creeks, with some exceeding flood stage. Resident basement and business flooding was reported across the county, and several



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### WISCONSIN, Southeast

roads were closed due to high water levels in low spots. Sewers backed up, and there were scattered reports of road shoulder washouts. Rural farm land had soil erosion and crop damage.

**WIZ069**

#### **Rock**

<b>18</b>	<b>0000CST</b>	<b>0</b>	<b>0</b>	<b>1M</b>	<b>17.5M</b>	<b>Flood</b>
<b>30</b>	<b>2359CST</b>					

Thanks to a 3-day rainfall event of 4 to 8 inches on the 16th, 17th, and 18th, across northern Rock county, the Rock River at Afton experienced moderate flooding. The river at this location crested at 10.53 feet at 0630CST on the 25th, or 1.53 feet above flood stage. Widespread flooding of farm land was reported across Rock county. Erosion was a problem as well as blocked roads until water levels receded. Business and resident basement flooding was especially bad in Janesville and Edgerton. Businesses lost money.

**WIZ072**

#### **Kenosha**

<b>18</b>	<b>0015CST</b>	<b>0</b>	<b>0</b>			<b>Flood</b>
<b>26</b>	<b>1900CST</b>					

Several rounds of heavy rains (1 to 3 inch totals) on top of saturated soils, resulted in flooding of mainstem rivers in Kenosha county. The Fox river near New Munster crested at 12.15 feet at 2245CST on the 19th, or 2.15 feet over flood stage. Several roads had water over them, and were closed for a couple days. Rural farm land sustained soil erosion and crop damage. The long-term soil wetness going back into May, coupled with June's rainfall and flooding was so bad that only 1/2 of the corn crop was planted this year. Farmers said it was the worst they've seen.

**Ozaukee County**  
**Port Washington**

<b>18</b>	<b>0530CST</b>	<b>0</b>	<b>0</b>			<b>Urban/Sml Stream Fld</b>
	<b>0700CST</b>					

Pre-dawn rains of around an inch on top of a saturated ground resulted in minor street flooding and basement flooding in parts of Port Washington. Some minor sewage backup also noted.

**WIZ060**

#### **Ozaukee**

<b>18</b>	<b>0630CST</b>	<b>0</b>	<b>0</b>	<b>3.9M</b>	<b>3M</b>	<b>Flood</b>
<b>20</b>	<b>1630CST</b>					

A series of thunderstorms "trained" N/NW into Ozaukee county and dumped heavy rains from 2 inches to over 7 inches on June 18th. Total rainfalls for the 3-day period of the 16th, 17th, and 18th ranged from 5 to over 13 inches (see Port Washington flash flood report for 06/18/96). There were many reports of flooding of basements, businesses, farm land, and low lands along rivers, streams, and creeks. Some roads were blocked for extended periods of time in Mequon, Cedarburg, Saukville, and Thiensville. Trash dumpsters were carried away by water 3 feet deep in Thiensville. Farm land sustained soil erosion and crop damage. The Milwaukee River on the east side of Cedarburg crested at 12.66 feet at 1815CST on the 18th, or 1.66 feet above flood stage

**WIZ056**

#### **Sauk**

<b>18</b>	<b>0700CST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>1M</b>	<b>Flood</b>
	<b>2000CST</b>					

Occasional heavy rains over a 3-day period finally resulted in the Baraboo river overflowing it's banks 3 to 10 miles downstream of the city of Baraboo. Lowland farm land flooded and there were mudslides near the river. A cow died from the high waters, and 25,000 acres of farm land flooded.

**Ozaukee County**  
**Belgium**

<b>18</b>	<b>0700CST</b>	<b>0</b>	<b>0</b>	<b>1M</b>		<b>Flash Flood</b>
	<b>0830CST</b>					

Heavy rainfalls of 5 to 6 inches (unofficial) within a 2 to 3 hour time period resulted in flash flooding in Belgium. There was the usual basement and business flooding. Portions of 2 roads and 2 bridges in the countryside around Belgium were washed out. One of the roads was Forest Beach Lane near the Lake Michigan shoreline.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### WISCONSIN, Southeast

#### Ozaukee County

**2.5 W Port Washington**    **18**    **0800CST**          **0**    **0**    **200K**    **Flash Flood**  
**1100CST**

Thunderstorms with heavy rains "trained" N/NW over the I-95 interchange west of Port Washington repeatedly to produce flash flooding. Water was reported to be 4 feet deep at the interchange, forcing a road closure until 1400CST. Shoulder washouts were noted. Rainfall on the 18th was unofficially in the 4 to 6 inch range, on top of 4 to 5 inches that fell the previous two days.

#### Ozaukee County

**Port Washington**    **18**    **0805CST**          **0**    **0**    **5.3M**    **Flash Flood**  
**1145CST**

Torrential rainfalls due to "training" thunderstorms moving N/NW into Port Washington resulted in probably the worst flash flooding ever experienced by that city. Within about 2 hours the city picked up 6 to over 7 inches of rain... on top of 5 to 6.5 inches that fell in the previous two days. Water reached 3 to 4 feet deep on some roads, while most manhole covers were swept away. A state of Emergency was declared by city officials at 0800CST, with the height of the storm occurring at 0830 to 0900CST. Mudslides were reported on several of the city's hills. Whole sections of some city streets were washed away. A ramaging Sauk Creek, running through the city, severely damaged the Wisconsin State Bridge. A railroad embankment on Grand Ave. was washed away, and another section of tracks was washed out. Lake Michigan bluffs also sustained severe damage in the form of mudslides that extended down to the water's edge. The mudslides destroyed the public beach and a bike trail through Lake Park. Knocked down poles resulted in the loss electricity to about 1300 homes. About 1000 homes had a varying amount of flood damage... or 1/3 of the city's homes! About 100 businesses sustained flood damage to their property. Several automobiles were also washed away on the city's roads. Maximum rainfall in Port Washington was 7.68 inches for June 18th, on top of 5.84 inches in the previous two days. The 3-day total was 13.52 inches! By the end of June a grand total of 18.27 inches dropped out of the sky! There were no reports of injuries or deaths.

#### WIZ072

**Kenosha**  
**18**    **1100CST**          **0**    **0**    **100K**    **Flood**  
**1700CST**

Periods of heavy rains from the 16th into the early morning hours of the 18th (totaling 1 to 3 inches) on top of saturated ground, resulted in a slow rise of water levels on the Pike river in northeast Kenosha county. Roads in and near the Petrifying Springs Park were flooded, as well as in other parts of the county. The usual resident and business flooded was noted, with several cars and much lawn equipment being damaged.

#### Green County

**3 S Juda**    **18**    **1250CST**          **0**    **0**       **Funnel Cloud**

#### Green County

**Martintown**    **18**    **1315CST**          **0**    **0**       **Funnel Cloud**

#### Rock County

**3 S Janesville**    **18**    **1445CST**          **0**    **0**       **Funnel Cloud**

#### Columbia County

**Wyocena**    **19**    **1500CST**          **0**    **1**    **2K**    **Lightning**

Lightning struck an 80 foot silo and then traveled into a next door cheese factory and struck a man at his desk. He was injured, treated, and released from a hospital. His office sustained damage to telephone and electrical lines.

#### Kenosha County

**Kenosha**    **21**    **1200CST**          **0**    **0**    **2K**    **Thunderstorm Wind**

Intense thunderstorm winds knocked large tree braches out of trees in and around the city of Kenosha





# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

<b>Dane County</b> <b>Middleton</b>	<b>21</b>	<b>2005CST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>
<b>Dane County</b> <b>1 W Roxbury</b>	<b>21</b>	<b>2025CST</b>			<b>0</b>	<b>0</b>	<b>15K</b>		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds toppled several large trees and power lines just west of Roxbury in the northwest part of the county									
<b>Lafayette County</b> <b>3.5 S Shullsburg</b>	<b>23</b>	<b>1805CST</b>			<b>0</b>	<b>0</b>	<b>3K</b>		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds knocked down large trees over a road south of Shullsburg.									
<b>Lafayette County</b> <b>2 E Darlington</b>	<b>23</b>	<b>1830CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.25)</b>
<b>Dane County</b> <b>1.5 S Dunkirk</b>	<b>23</b>	<b>1930CST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind</b>
Intense thunderstorm winds blew down several large trees and ripped shingles off a homes roof									
<b>WIZ066</b>	<b>Milwaukee</b>								
	<b>29</b>	<b>1100CST</b> <b>1700CST</b>			<b>0</b>	<b>70</b>			<b>Heat Wave</b>
A minimal heat wave produced air temperatures of 95 degrees and dewpoints in the lower to mid 70s, and heat indices of 105 to 110 for one day. The lowest air temperature in Milwaukee on the 29th was 74. A large crowd attended the Summerfest event on Milwaukee's lakefront. County doctors and Red Cross volunteers administered medical treatment to 70 people who were overcome/injured by the heat. Six of these people were taken to local hospitals for further treatment. There were no deaths. It is believed that the water "mistlers" installed on the Summerfest grounds prevented more injuries or possible deaths									
<b>Marquette County</b> <b>4 E Westfield</b>	<b>29</b>	<b>1810CST</b>			<b>0</b>	<b>0</b>	<b>6K</b>		<b>Thunderstorm Wind</b>
Strong thunderstorm winds toppled large trees west of Westfield									
<b>Sauk County</b> <b>Baraboo</b>	<b>29</b>	<b>1818CST</b>			<b>0</b>	<b>0</b>	<b>7K</b>		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds toppled large trees in and around the city of Baraboo.									
<b>Marquette County</b> <b>Brooks</b>	<b>29</b>	<b>1821CST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds knocked down large trees... some up to 12 inch in diameter.									
<b>Green Lake County</b> <b>Marquette</b>	<b>29</b>	<b>1829CST</b> <b>1929CST</b>			<b>0</b>	<b>0</b>	<b>7K</b>		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds blew down several large trees in the city of Marquette.									
<b>Columbia County</b> <b>Portage</b>	<b>29</b>	<b>1829CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds toppled several large trees and power lines.									
<b>Green Lake County</b> <b>Berlin</b>	<b>29</b>	<b>1830CST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind</b>
Strong thunderstorm winds pushed over several large trees in the city of Berlin									
<b>Sauk County</b> <b>Lake Delton</b>	<b>29</b>	<b>1835CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
Strong thunderstorm winds blew over many large trees and a couple power lines.									



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>WISCONSIN, Southeast</u></b>									
<b>Columbia County</b>									
Portage	29	1847CST			0	0	9K		Thunderstorm Wind
Yet another line of thunderstorms generated strong winds that toppled large trees in Portage.									
<b>Sauk County</b>									
Reedsburg	29	1855CST			0	0	9K		Thunderstorm Wind
Strong thunderstorm winds toppled large trees and power lines. Amateur radio operators estimated winds in the 60 to 70 mph range.									
<b>Fond Du Lac County</b>									
4 NE Oakfield	29	1903CST			0	0	100K		Thunderstorm Wind
Powerful thunderstorm winds pushed over an old barn, large trees, and power lines northeast of Oakfield.									
<b>Dodge County</b>									
Beaver Dam	29	1905CST			0	0	15K		Thunderstorm Wind
Numerous large trees, and some power line were blown over by strong thunderstorm winds.									
<b>Fond Du Lac County</b>									
North Fond Du Lac	29	1915CST			0	0	10K		Thunderstorm Wind
Intense thunderstorm winds knocked over large trees and power lines in the city of North Fond du Lac									
<b>Dodge County</b>									
1 N Lomira	29	1920CST			0	0	4K		Thunderstorm Wind
Powerful thunderstorm winds toppled several large trees, one which struck and damaged an automobile.									
<b>Dane County</b>									
Mt Horeb	29	1925CST			0	0	15K		Thunderstorm Wind
Powerful thunderstorm winds downed large trees and power lines in Mt. Horeb.									
<b>Washington County</b>									
Jackson	29	1930CST			0	0	18K		Thunderstorm Wind
Strong thunderstorm winds pushed over large trees and power lines, cutting electricity to 1000 homes									
<b>Sheboygan County</b>									
Sheboygan	29	2000CST			0	0	4K		Thunderstorm Wind
Powerful thunderstorm winds knocked large tree braches out of many trees in the north side of the city.									
<b>Green County</b>									
6 N Monroe	29	2030CST			0	0	10K		Thunderstorm Wind
Powerful thunderstorm winds toppled large trees north of Monroe.									
<b>Lafayette County</b>									
Woodford	29	2030CST			0	0	18K		Thunderstorm Wind
Strong thunderstorm winds toppled several large trees and some power line in and around the village of Woodford									
<b>Green County</b>									
Albany	29	2040CST			0	0	13K		Thunderstorm Wind
Strong thunderstorm winds blew down several large trees in and around the city of Albany									



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

#### Washington County

4 E Kewaskum	02	0415CST			0	0	100K		Lightning
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Lightning struck a pole barn, resulting in a fire which destroyed the barn. The horses escaped without injury.

#### Washington County

2 NW West Bend	02	1828CST 1829CST			0	0			Funnel Cloud
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#### Waukesha County

Hartland	02	1908CST 1914CST			0	0			Funnel Cloud
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#### WIZ072

#### Kenosha

05	1300CST 1303CST			0	0	0.10K			Dust Devil
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A rare, short-lived dust devil spun up over a recently plowed field and then moved into the backyard of a residence about 2 miles SSE of Pleasant Prairie. It turned over and damaged a patio umbrella and lifted a heavy metal table. It was on the ground for about 100 yards, and was about 1 to 2 yards in diameter. The home's owner said it had a very strange sound.

#### Lafayette County

7.5 N Argyle	08	0930CST			0	0	1K		Thunderstorm Wind
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Powerful thunderstorm winds knocked large branches out of trees in the city of Blanchardville. Pea size hail also occurred.

#### Dane County

Stoughton	08	0935CST			0	0	30K		Thunderstorm Wind
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A line of thunderstorms with intense winds formed a microburst which blew over a concrete brick wall on a construction site in Stoughton. In addition, the intense winds blew a pleasure boat across a road, resulting in some damage to the boat. Due to the small area of damage, this event was most likely a wet microburst that generated wind gusts in excess of 60 mph.

#### Columbia County

5 NE Portage	12	1530CST			0	0	5K		Thunderstorm Wind
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Strong thunderstorm winds toppled large trees northeast of Portage. Pea size hail also fell

#### Washington County

3 W Hartford	12	1719CST 1720CST			0	0			Funnel Cloud
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#### Waukesha County

Sussex	15	1230CST			0	1			Lightning
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Lightning struck and injured a 20 year old man working in a lumber yard. He was briefly treated at a local hospital.

#### Green County

Browntown	18	0000CST 0330CST			0	1	6M	6M	Flash Flood
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The same thunderstorms that trained southeast through nextdoor Lafayette county also created flash flooding in the Browntown to Monroe areas down to Martintown in Green county. Rainfall amounts in a 5 hour period ending at 0200CST generally totaled 10 to 12 inches in this triangular area. Up to 13.50 inches fell about 6 miles northwest of Monroe!! A bridge on the Highway 11 approach to Browntown was washed away as water depths on the road reached 4 feet. The highway east of Browntown was closed for several days after the flood waters receded. Most roads into Browntown were closed due to flash flooding of streams, creeks, and rivers. Consequently, Browntown was almost isolated. The flood waters of Skinner Creek washed out County Highway Y about 4 miles northeast of Browntown. Smock Creek flooded Highway 11 just east of Browntown for the first time in 60 years! Three homes in Monroe sustained major structural damage, and many other homes had basement flooding. Businesses in Monroe also suffered flash flood damage as water surged thru the streets. One women at the Green County Fairgrounds in Monroe was injured as flood waters swept her off her feet. Serious soil erosion and crop damage occurred to about 15,000 acres of rural farm fields. Highway 81 west of Monroe was closed to high water levels. Local people claimed that the Pecatonica River upstream from Martintown was the highest they've ever seen. This river at Martintown crested at 16.12 feet at 2000CST on the 20th, or 5.13 feet above flood stage. It was above flood stage from 0400CST on the 18th to 2105CST on the 24th of July!



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### WISCONSIN, Southeast

#### Lafayette County

Blanchardville	18	0100CST 0400CST			0	0	480K	100K	Flash Flood
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Flash flooding occurred in the villages of Blanchardville and Argyle due to rainfalls of 6 to 7 inches within a 4 to 5 hour period. These rains were the result of thunderstorms developing in Lafayette and Iowa counties, and then training ESE into the Blanchardville area. In Blanchardville a bridge was washed out, and two roads under construction sustained major damage to their curb and gutter segments. Just east of Argyle, on Highway 81, a 200 foot section of the highway's gravel shoulder was washed away by flood waters. Rural farm land, especially along the east branch of the Pecatonica River in eastern Lafayette county, also sustained some soil and crop damage. In Blanchardville, the east branch of the Pecatonica River crested at 14.47 feet at 2245CST on the 18th, or 3.47 feet above flood stage. At this location the river exceed flood stage at 0300CST on the 18th and finally went below flood stage at 2045CST on July 19th.

#### Green County

Monticello	18	0100CST 0400CST			0	0			Flash Flood
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Flash flood producing thunderstorms eventually drifted into the eastern part of Green county. Rainfall amounts within a 5 hour period totaled 6 to 8 inches in the northeast corner of the county around Brooklyn to 10 to 12 inches in the Monticello to Brodhead area. Several roads and bridges were washed out in the Monticello to Brodhead area. Highway 39 east of Monticello suffered severe damage and was projected to be closed for several months for repairs. About 25,000 acres of farmland had serious flooding and erosion in a 10 mile wide swath from Monticello to Brodhead, with 20% of these acres having a total loss. Water was reported to be 10 feet high in some farm fields. Water levels on the Sugar River in Brodhead were the highest since 1975. The river this location crested at 8.69 feet at 1200CST on the 18th, or 3.69 feet over flood stage. The river was above flood stage from 0515CST on the 18th through 0605CST on July 21st.

#### Green Lake County

2 SW Manchester	18	0855CST			0	0	1K		Lightning
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Lightning struck a wooden pole barn and started a brief fire. The fire was quickly put out before major damage occurred.

#### Green Lake County

10 W Berlin to 9.5 W Berlin	18	1705CST 1706CST			0	0			Funnel Cloud
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#### Green Lake County

8.3 NW Green Lake to 6.3 NW Green Lake	18	1715CST 1730CST	2	125	0	0			Tornado (F1)
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A tornado touched down in a wooded area of the Township of St. Marie about 1 mile south of County Trunk Hwy D. Touchdown was 8.3 miles northwest of the city of Green Lake and liftoff was on the Fox River about 6.3 miles northwest of the city of Green Lake. The only damage was to trees along its 2 mile path.

#### Green Lake County

5 N Green Lake	18	1729CST 1730CST			0	0			Hail (0.75)
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#### Fond Du Lac County

Ripon	18	1743CST 1744CST			0	0			Hail (1.00)
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#### Fond Du Lac County

4 WNW Oakfield to 1 NW Eden	18	1805CST 1835CST	13.3	400	0	12	39.5M	900K	Tornado (F5)
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A violent tornado struck the village of Oakfield at about 1815CST after it touched down 4 miles WNW of the village. During its approach on Oakfield it intensified to a F3 rating. When it tore through the village it intensified to a F4, but along its path 1 to 4



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### WISCONSIN, Southeast

miles east of the village it intensified to F5 strength (estimated 265 mph winds). In this span 4 homes were completely swept clean off their foundations and a couple automobiles became airborne missiles for a distance of about 400 feet. The core width of the most intense damage was about 150 to 200 yards, although at times, some secondary damage was observed in a 400 yard wide path

Oakfield residents heard local sirens about 8 minutes before the tornado entered the village. Miraculously, no one was killed, but there were 12 injuries. Some of the injured were hospitalized. Along the tornadoes path, 60 homes and 6 businesses were destroyed. An additional 130 homes and businesses were damaged. In Oakfield, a commercial canning company was devastated. Two churches in the village were also destroyed, as well as numerous vehicles. In the rural areas along the tornadoes path, 18 barns and many sheds were destroyed or damaged, and about 500 acres of crops were wiped out. Total damage amounts were \$39.5 million in public/private property, and \$900,000 in crop losses. Residents reported that they had difficulty "popping" their ears as the tornado roared through their neighborhood.

Prior to entering Oakfield, the tornado hopped and skipped a few times, and multiple voices were observed at times during its life cycle. Witnesses reported that the tornado "paused" for a minute or so on the southeast edge of Oakfield. As the tornado tore through Oakfield it changed it's heading to east. Corn fields just east of Oakfield were reduced to short 1 to 4 inch high stubble, and burn marks were clearly visible in the fields. In the third segment of the tornadoes life, when it turned northeast at a point 5.5 miles east of Oakfield, it's strength diminished rapidly. By the time it "roped out" 1 mile NW of Eden, it's supporting mesocyclone's position on WSR-88D Doppler was about 5 miles to the south! Debris was found east to the Lake Michigan shoreline, and cancelled checks were later found 125 miles E/SE near Muskegon, MI!

#### **Fond Du Lac County**

**2 NW Marytown to  
2.5 SE Marytown**

<b>18</b>	<b>1807CST 1815CST</b>	<b>4.4</b>	<b>200</b>	<b>1</b>	<b>1</b>	<b>450K</b>	<b>300K</b>	<b>Tornado (F2)</b>
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A strong tornado (F2) struck Marytown, resulting in 1 fatality (81 year old male) and 1 injury. This tornado actually touched down in Calumet county about 1.1 miles SE of Jericho (see WFO GRB Stormdata report), and then headed southeast into into Fond du Lac county at a point 2.0 NW of Marytown. It destroyed or damaged at least a couple dozen barns, sheds, and homes on a southeastward path. Many large trees were uprooted. The north side of Marytown was hit the hardest, where a house trailer, 3 homes, and a machine shed were destroyed. The tornado exited Fond du Lac county at a point 2.5 miles SE of Marytown and re-entered Calumet county where it quickly dissipated. The path length in Fond du Lac county was 4.4 miles. M81H

#### **Fond Du Lac County**

**1.3 WNW Marytown to  
.5 N Marytown**

<b>18</b>	<b>1807CST 1809CST</b>	<b>1.2</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>100K</b>	<b>Tornado (F0)</b>
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A weak tornado touched down 1.3 miles WNW of Marytown and moved east to a point .5 mile north of Marytown. It only damaged farm crops before it dissipated. This weak tornado preceded the other tornado that touched down in Calumet county and eventually tore through Marytown in northeast Fond du Lac county.

#### **Fond Du Lac County**

**4 E Oakfield**

<b>18</b>	<b>1810CST 1811CST</b>			<b>0</b>	<b>0</b>		<b>Hail (2.50)</b>
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#### **Fond Du Lac County**

**Oakfield**

<b>18</b>	<b>1825CST 1826CST</b>	<b>0.6</b>	<b>50</b>	<b>0</b>	<b>0</b>		<b>Tornado (F0)</b>
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Yet another tornado (F0 this time) briefly touched down in Oakfield about 10 minutes after the violent tornado had gone through. It moved along the original damage path, from the western to eastern village limits, and only picked up some of the original debris. The path length was about .6 miles.

#### **Fond Du Lac County**

**4 WNW North Fond Du  
3.8 WNW North Fond  
Du Lac**

<b>18</b>	<b>1827CST 1828CST</b>	<b>0.2</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>100K</b>	<b>100K</b>	<b>Tornado (F0)</b>
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A weak tornado (F0) briefly touched down in a rural area 4 WNW of North Fond du Lac, or just east of Eldorado Marsh State Park. It destroyed or damaged a barn and a machine shed on a path length of .2 miles. It dissipated 3.8 WNW of North Fond du Lac. Some crop damage was also noted.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b>WISCONSIN, Southeast</b>									
<b>Sheboygan County</b>									
Elkhart Lake	18	1829CST			0	0			Funnel Cloud
<b>Sheboygan County</b>									
4 SSE Plymouth	18	1832CST			0	0	20K		Thunderstorm Wind
Powerful thunderstorms winds toppled several large trees in the area 4 SSE of Plymouth to near Cascade. One of the toppled trees damaged a vehicle.									
<b>Sheboygan County</b>									
2 W Greenbush	18	1840CST			0	0			Funnel Cloud
<b>Fond Du Lac County</b>									
3.8 SE Byron to 3.9 SE Byron	18	1855CST 1856CST	0.1	50	0	0		75K	Tornado (F0)
A weak tornado (F0) briefly touched down about 3.8 miles SE of the village of Byron. It flattened a portion of a corn field south of Campbell Road and west of Hilltop Road.									
<b>Fond Du Lac County</b>									
Dundee	18	1859CST			0	0	15K		Thunderstorm Wind
Powerful thunderstorm winds blew over several large trees in the Dundee area.									
<b>Fond Du Lac County</b>									
Dundee	18	1859CST			0	0			Funnel Cloud
<b>Sheboygan County</b>									
Adell	18	1900CST			0	0			Funnel Cloud
<b>Washington County</b>									
1 N Fillmore	18	1905CST			0	0			Funnel Cloud
<b>Sheboygan County</b>									
1.8 SSW Beechwood to 2 S Beechwood	18	1910CST 1912CST	0.9	150	0	0	250K	0.20K	Tornado (F1)
A F1 tornado touched down 1.8 miles SSW of Beechwood and was on the ground for only 2 minutes before lifting off 2.0 miles south of Beechwood. Several homes and a couple barns were damaged, and there was some crop damage. There were no injuries or deaths.									
<b>Ozaukee County</b>									
Port Washington	18	1915CST			0	0			Hail (1.75)
<b>Ozaukee County</b>									
1 NNW Fredonia to 3.4 NE Knellsville	18	1918CST 1928CST	7.6	125	0	0	300K	230K	Tornado (F1)
A weak tornado touched down 1 mile NNW of Fredonia and then hopped and skipped to a point .6 miles south of Holy Cross where it intensified from F0 to F1. This tornado continued on the ground ESE near and south of Dixie Road to the Lake Michigan shoreline at a point 3.4 miles NE of Knellsville. It destroyed 4 barns and 3 machine sheds, and 1 garage. It also damaged 6 homes, 1 barn, 3 machine sheds, and 1 garage. There was also crop damage to about 500 acres along its path through rural areas. Several vehicles were also destroyed or damaged. There were no injuries or deaths. Total damage amounts were \$300,000 in private/public property and \$230,000 for crops. This tornado then became a waterspout as it continued ESE over Lake Michigan									
<b>Ozaukee County</b>									
1.2 SSE Dacada	18	1921CST			0	0			Funnel Cloud
<b>Ozaukee County</b>									
1.6 E Port Washington A 1.8 NE Port Washington	18	1928CST 1930CST	0.8	75	0	0			Tornado (F0)
A weak (F0) tornado touched down 1.6 miles east of the Port Washington airport, just east of I-94, and proceeded to head southeast to the Lake Michigan shoreline at a point 1.8 miles NE of the city of Port Washington. No significant damage was noted. It then moved out over Lake Michigan as a waterspout.									



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

#### **Ozaukee County**

3.4 NE Knellsville to 5.2 SE Lake Church	18	1928CST 1931CST			0	0			<b>Waterspout</b>
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This waterspout was a continuation of a F1 tornado that originally touched down near Fredonia and moved east/southeast to the shoreline at a point 3.4 NE of Knellsville. No damage was noted. Its path length over water was about 2.0 miles. It dissipated about 5.2 SE of Lake Church.

#### **Ozaukee County**

1.8 NE Port Washington 2.1 ENE Port Washington	18	1930CST 1933CST			0	0			<b>Waterspout</b>
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This waterspout was a continuation of a F0 tornado that originally touched down a couple miles east of the Port Washington airport. No damage was noted with this waterspout which had a path length of about 1.3 miles over water. It dissipated about 2.1 ENE of Port Washington.

#### **Ozaukee County**

Waubeka	18	1956CST			0	0	20K		<b>Thunderstorm Wind</b>
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Intense thunderstorm winds toppled large trees in Waubeka, resulting in a clean-up job

#### **Washington County**

Kewaskum	18	1958CST			0	0	15K		<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds blew over several large trees in the city of Kewaskum, resulting in a significant clean-up problem.

#### **Dodge County**

Rubicon	18	2015CST			0	0	1K		<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds knocked many large branches out trees in Rubicon.

#### **Washington County**

Hartford	18	2025CST			0	0	18K		<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds roared through Hartford and toppled large trees or knocked down large branches around the city.

#### **Milwaukee County**

Brown Deer	18	2112CST			0	0	12K		<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds felled several large trees or knocked down large tree branches in Brown Deer.

#### **Dane County**

Madison	22	1330CST 1332CST			0	0			<b>Hail (1.75)</b>
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#### **Kenosha County**

.5 N Wilmot to 2.8 NE Benet Lake	24	1405CST 1418CST	7	50	0	0			<b>Tornado (F0)</b>
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A weak tornado hopped and skipped across mostly open rural areas on an easterly path. It was not on the ground the entire time. Touchdown was .5 mile N of Wilmot and liftoff was 2.8 miles northeast of Benet Lake. Damage was limited to just trees. There were no injuries or deaths, or any known structural damage.

#### **Kenosha County**

2 N Bristol	24	1417CST 1419CST			0	0	10K		<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds blew over large trees which damaged telephone lines



# National Weather Service

## Storm Data and Unusual Weather Phenomena



August 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>WISCONSIN, Southeast</u></b>									
<b>Columbia County</b>									
Portage Arpt	05	1439CST			0	0			<b>Thunderstorm Wind (G54)</b>
Powerful thunderstorm winds measured at 62 mph at the airport blew down large trees and power lines in the city of Portage									
<b>Dane County</b>									
5 S Verona	05	1508CST			0	0			<b>Thunderstorm Wind (G52)</b>
Powerful thunderstorm winds measured at 60 mph combined with heavy rains reduced visibility to zero south of Verona									
<b>Dane County</b>									
Oregon	05	1515CST			0	0	20K		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds toppled numerous trees in and around the city of Oregon									
<b>Dodge County</b>									
Randolph	05	1515CST			0	0			<b>Thunderstorm Wind (G52)</b>
Powerful thunderstorm winds measured at 60 mph toppled some large trees in Randolph.									
<b>Green Lake County</b>									
Green Lake	05	1525CST			0	0	4K		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds knocked numerous large tree branches out of trees in and around the city of Green Lake									
<b>Dane County</b>									
4 N Oregon	05	1535CST			0	0	9K		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds blew down large trees north of Oregon.									
<b>Fond Du Lac County</b>									
Fond Du Lac	05	1550CST			0	0	50K		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds blew down large trees and power lines in the city of Fond du Lac									
<b>Iowa County</b>									
Highland	05	1605CST			0	0			<b>Thunderstorm Wind (G52)</b>
Powerful thunderstorm winds measured at 60 mph blew down large trees in and near Highland.									
<b>Iowa County</b>									
Dodgeville	05	1615CST			0	0	18K		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds toppled large trees in and around Dodgeville.									
<b>Dane County</b>									
1 W Token Creek	05	1750CST			0	0			<b>Funnel Cloud</b>
<b>Fond Du Lac County</b>									
St Peter	05	1809CST			0	0			<b>Thunderstorm Wind (G51)</b>
Powerful thunderstorm winds were measured at 59 mph... and they toppled some large trees.									
<b>Columbia County</b>									
Columbus	05	1824CST			0	0			<b>Thunderstorm Wind (G52)</b>
Powerful thunderstorm winds were measured at 60 mph... and toppled many large trees. Two inches of rain were measured in 45 minutes.									
<b>Green County</b>									
10 NW Clarno	05	1833CST			0	0	20K		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds blew down many large trees northwest of Clarno.									
<b>Jefferson County</b>									
Ixonia	05	1900CST			0	0	12K		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds blew down large trees in Ixonia. The winds were estimated to be about 65 mph									
<b>Dane County</b>									
Stoughton	05	1900CST			0	0	15K		<b>Thunderstorm Wind</b>
Powerful thunderstorm winds blew down large trees in and around the city of Stoughton.									





# National Weather Service

## Storm Data and Unusual Weather Phenomena



August 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### WISCONSIN, Southeast

#### Rock County

**2 N Footville**      **05**      **1915CST**                **0**      **0**      **18K**      **Thunderstorm Wind**  
 Powerful thunderstorm winds toppled several large trees near Footville. The winds were estimated to be about 65 mph.

#### Dane County

**Oregon**      **05**      **1925CST**                **0**      **0**      **20K**      **Thunderstorm Wind**  
 Powerful thunderstorm winds blew down several large trees around Oregon.

#### Waukesha County

**.4 E Oconomowoc**      **05**      **1927CST**                **0**      **0**      **15K**      **Thunderstorm Wind**  
 Powerful thunderstorm winds toppled large trees just east of Oconomowoc as heavy rains reduced visibilities to near zero.

#### Rock County

**Milton**      **05**      **2005CST**                **0**      **0**      **15K**      **Thunderstorm Wind**  
 Powerful thunderstorm winds knocked many large branches out of trees and blew down several large trees in the Milton to Janesville area.

#### Rock County

**3 E Edgerton**      **05**      **2020CST**  
**2030CST**                **0**      **0**      **15K**      **Lightning**  
 Lightning struck a large pole shed on a farm, and the resultant fire destroyed the shed and its contents.

#### Waukesha County

**New Berlin**      **05**      **2030CST**                **0**      **0**      **150K**      **Lightning**  
 Lightning struck a home and started a fire that completely burned the attic. The home may have been hit twice by lightning

#### Sheboygan County

**3 E Waldo**      **05**      **2050CST**                **0**      **0**      **130K**      **Lightning**  
 Lightning struck a rural home, and the resultant fire completely destroyed the home and its contents. The residents were not home at the time.

#### Waukesha County

**Menomonee Falls**      **05**      **2130CST**                **0**      **0**      **25K**      **Lightning**  
 Lightning struck a home's garage and started a fire. The garage was a total loss, and the home's kitchen suffered some smoke damage.

#### Washington County

**1.5 NW West Bend**      **05**      **2214CST**                **0**      **0**      **5K**      **Lightning**  
 Lightning struck a tree, and the electricity then traveled underground to fracture a natural gas main.

#### Dane County

**Oregon**      **06**      **0830CST**                **0**      **0**      **250K**      **Lightning**  
 Lightning struck home near Oregon and started a slow-burning fire which gutted the home and its contents.

#### Sauk County

**3.5 SW Reedsburg**      **07**      **0300CST**                **0**      **0**      **50K**      **100K**      **Thunderstorm Wind**  
 Powerful thunderstorm winds blew down numerous large trees from southwest to east of Reedsburg. In addition, a pole shed and dog kennel were destroyed, a home's bay window was sucked out, and some crops leveled.

#### Marquette County

**Briggsville**      **07**      **0310CST**                **0**      **0**                **Thunderstorm Wind (G52)**  
 Powerful thunderstorm winds toppled some large trees as winds gusted to 60 mph.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



August 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### WISCONSIN, Southeast

#### Sheboygan County

1.5 ENE Glenbeulah	07	0505CST			0	0	15K	<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds blew over large trees east/northeast of Glenbeulah.

#### Walworth County

Whitewater	19	1305CST			0	0	20K	<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds blew over a few large trees on the UW-Whitewater campus. One of the trees fell on 3 automobiles, causing extensive damage.

#### Columbia County

Columbus	19	1310CST			0	0	100K	<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds raked the city of Columbus, downing large trees, limbs, and some power lines.

#### Dodge County

2 E Astico	19	1315CST			0	0	12K	<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds blew over several large trees across a road

#### Dane County

5.5 SW Dane	19	1320CST			0	0	75K	<b>Lightning</b>
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Lightning struck a home in the Township of Dane, starting a fire that damaged part of the home.

#### Waukesha County

Brookfield	19	1350CST			0	0	10K	<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds knocked numerous large trees branches out of trees in and around Brookfield.

#### Milwaukee County

North Milwaukee	19	1415CST			0	0	11K	<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds knocked numerous large tree branches out of large trees on the north side of Milwaukee.

#### Walworth County

2 N Darien	19	1800CST			0	0	150K	<b>Thunderstorm Wind</b>
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Powerful thunderstorm winds leveled a cattle pole shed and also damaged a granary. In addition, roof shingles were ripped off a machine shed and main barn.

#### Washington County

Germantown	21	1915CST			0	0	50K	<b>Lightning</b>
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A fire caused by lightning resulted in damage to a condo and its garage.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



October 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### WISCONSIN, Southeast

#### Waukesha County

##### Chenequa

06 2245CST 0 1 10K **Lightning**

Lightning struck a home, blowing a hole in the roof. Falling, hot debris from this hole then dropped through the ceiling of a bedroom, and fell on a child at sleep. The child received slight burns from the hot debris. There was no significant fire.

#### Jefferson County

##### 2.3 NNE Ixonia

06 2330CST 0 0 50K **Lightning**

Lightning struck a home, blowing an 8 by 10 foot hole in the roof which caught fire. The fire seriously damaged the home's 2nd floor. Water damaged the first floor.

#### Kenosha County

##### Kenosha

16 2100CST 0 0 15K **Lightning**

Lightning struck transformer, knocking out electrical power to 1500 residents.

#### Iowa County

##### 1 W Ridgeway

16 2300CST 0 0 100K 10K **Lightning**

Lightning started a fire that destroyed a 124 foot barn, one silo, and 40 milking cows. Another silo was damaged. In addition, a nearby milk house was severely damaged. The barn's hay and feed was destroyed.

#### Dane County

##### Madison

17 0100CST 0 0 0.50K **Lightning**

Near the highway beltline on the south side of Madison, lightning struck a tree which splintered in half. One of its limbs then fell on and slightly damaged a backyard storage shed.

#### Rock County

##### Johnstown

17 0515CST 0 0 75K **Lightning**

Lightning struck a farm house, which subsequently burned to the ground.

#### Iowa County

##### Waldwick

29 1500CST 0 0 **Hail (1.00)**

#### Dane County

##### Monona

29 1608CST 0 0 **Hail (0.88)**

#### Waukesha County

##### Mukwonago

29 1652CST  
1657CST 0 0 1.2M **Hail (2.00)**

A severe thunderstorm, producing damaging winds and large hail, left considerable damage in and around Mukwonago. Hail fell for 5 minutes, and was up to 2 inches in diameter. Over 200 automobiles were damaged by the large hail. Powerful winds, also a part of the storm, damaged the siding and roofs of 2 homes, and blew over a backyard shed.

#### Walworth County

##### East Troy

29 1655CST  
1710CST 0 0 20K **Thunderstorm Wind**

A severe thunderstorm, packing damaging winds and large hail, hit the East Troy area. Besides large hail up to 1.50 inches in diameter being reported, powerful winds broke loose 4 small airplanes from their tie-downs at the East Troy airport. The planes suffered varying amounts of wing and fuselage damage.

#### Rock County

##### Hanover

29 1703CST 0 0 15K **Thunderstorm Wind**

Powerful thunderstorm winds toppled large trees in and around Hanover.

#### Rock County

##### Union

29 1708CST 0 0 20K **Thunderstorm Wind**

Powerful thunderstorm winds moved a 12 by 17 foot building off its foundation, destroying half of it.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



October 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<b><u>WISCONSIN, Southeast</u></b>							
<b>Jefferson County</b> 2.5 NE Jefferson	29	1710CST			0 0	5K	Thunderstorm Wind
							Powerful thunderstorm winds knocked down several large trees.
<b>Waukesha County</b> New Berlin	29	1710CST			0 0		Hail (0.75)
<b>Milwaukee County</b> West Allis	29	1715CST			0 0		Hail (0.88)
<b>Rock County</b> Evansville	29	1735CST			0 0	10K	Thunderstorm Wind
							Powerful thunderstorm winds toppled large trees in and around Evansville
<b>Rock County</b> Beloit	29	1735CST			0 0	20K	Thunderstorm Wind
							Powerful thunderstorm winds blew over large trees in the city of Beloit. One tree fell on top an automobile, causing roof and trunk damage.
<b>Kenosha County</b> Pleasant Prairie	29	1740CST			0 0	10K	Thunderstorm Wind
							Powerful thunderstorm winds blew down a street light, as well as breaking large tree limbs.
<b>Walworth County</b> Lake Geneva	29	1750CST			0 0	20K	Thunderstorm Wind
							Powerful thunderstorm winds rocked and weakened a radio station's tower structure.
<b>Jefferson County</b> 3.5 E Ft Atkinson	29	1755CST			0 0	20K	Thunderstorm Wind
							Powerful thunderstorm winds blew over large trees east of Ft. Atkinson. One tree fell on and damaged a garage
<b>Walworth County</b> Delavan	29	1800CST			0 0	25K	Thunderstorm Wind
							Powerful thunderstorm winds toppled large trees, some of which fell on and dragged down powerlines
<b>Walworth County</b> 3 NNE Genoa City	29	1805CST			0 0	15K	Thunderstorm Wind
							Powerful thunderstorm winds toppled large trees north/northeast of the village of Genoa City. Spotters estimated wind speeds to be 70 mph.
<b>Waukesha County</b> 1.5 E Wales	29	1815CST			0 0	20K	Thunderstorm Wind
							Powerful thunderstorm winds blew over 13 large oak trees, one which fell on and damaged a home's wooden deck. The home's mail box was destroyed, as well as other yard ornaments. The fallen trees block a road for several hours.
<b>Racine County</b> Burlington	29	1820CST			0 0	15K	Thunderstorm Wind
							Powerful thunderstorm winds toppled large trees in and around Burlington, and brought down construction signs.
<b>Racine County</b> Burlington	29	1820CST			0 0	0.80K	Lightning
							Lightning struck and damaged an apartment building's TV antenna
<b>Kenosha County</b> 2 E Paddock Lake	29	1829CST			0 0	20K	Thunderstorm Wind
							Powerful thunderstorm winds toppled a silo, as well as some large trees.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



October 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

WIZ071

Racine

29

1845CST  
1915CST

0

0

50K

High Wind

Post, cold-frontal high winds blew over and destroyed 2 grain bins and machine shed, and damaged another grain bin at an agricultural equipment business about 3 miles northeast of Paddock Lake. Several large trees in the same vicinity were snapped off half-way up. The business owner estimated the wind at 60 to 70 mph. There were several other reports of downed trees and stop signs across Kenosha county in this "gradient" high wind event that followed on the heels of a round of fast moving, low-top, severe thunderstorms that generated damaging winds and large hail across parts of southeast Wisconsin.

WIZ064

Jefferson

30

0130CST  
0230CST

0

0

20K

High Wind

High winds in Ft. Atkinson tore a movie theater's marquee sign from its mounts.

WIZ071

Racine

30

0200CST  
0300CST

0

0

20K

High Wind (G65)

High winds measured at 75 mph at the Burlington Airport, lifted a flipped over a Cessna 172 airplane, and toppled several large trees in the city of Burlington.

WIZ059

Washington

30

0230CST  
0330CST

0

0

High Wind (G52)

A measured wind gust of 60 mph occurred on the UW-Washington County campus in West Bend, as strong, gradient winds hit the area.

WIZ052

Sheboygan

30

0300CST  
0400CST

0

0

20K

High Wind

High winds in the Elkhart Lake area toppled a power pole which fell on a barn. The powerline then caught fire, resulting in damage to the lines and the barn. Large tree branches were also knocked out of nearby trees.

WIZ065

Waukesha

30

0600CST  
0700CST

0

0

30K

High Wind

High winds, probably peaking in the 60 mph range, raked Waukesha county and caused scattered damage. In Harland, a cement block wall, part of an addition to a building, was blown down. In Pewaukee at Hwy 16 and Capitol Drive, the panel of a Burger King sign was shredded. Large trees and/or branches were toppled in Nashotah, as well as in other locations north of I-94



# National Weather Service

## Storm Data and Unusual Weather Phenomena



December 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### WISCONSIN, Southeast

WIZ051-056>058-  
062>064-067>068

Fond Du Lac - Sauk - Columbia - Dodge - Iowa - Dane - Jefferson - Lafayette - Green

23 0000CST 0 0 300K Ice Storm  
2200CST

Freezing rain and freezing drizzle left a deposit of ice up 3/8 thick in a swath from Iowa and Lafayette counties northwest to the southern part of Fond du Lac county. The worst ice accumulations occurred around Madison to around Baraboo. There were at least 100 vehicle accidents reported. The West Beltline around Madison was closed for almost two hours prior to daybreak due to a major multi-vehicle accident. Madison area hospitals reported that 8 people were briefly hospitalized due to falling on icy pavements (these are indirectly-related injuries), and an additional 9 people were treated for injuries in vehicle accidents.

The ice accumulation during this storm on a radio tower on top of the Baraboo Hills started a chain of events that ultimately lead to this tower collapsing at 1830 CST on December 31st. Local technicians noted that the tower was shrouded in fog and/or low clouds from the 23rd through the 31st. Shattered pieces of the ice had a thickness up to 1.25 inches! An "off the cuff" estimate pegged the tower ice load at 35 tons!

WIZ046>047-056

Marquette - Green Lake - Sauk

23 1100CST 0 0 Heavy Snow  
24 0300CST

Heavy wet snow accumulated to 6 to 7 inches in depth across the northern parts of Marquette and Green Lake counties, as well as over the northwest part of Sauk county. Some blowing and drifting of snow occurred at the end of the heavy snow period. The snow was preceded by a slight glazing of freezing rain.

WIZ067>070-072

Lafayette - Green - Rock - Walworth - Kenosha

25 1800CST 0 0 Heavy Snow  
26 0600CST

Low pressure moving west to east across central Illinois deposited 6 to 6.5 inches of dry snow across the extreme southern parts of Wisconsin's counties along the Illinois border. The 6.5 inch accumulation was reported in southwestern Lafayette county. Lesser amounts of 3 to 5 inches fell in the Madison to Milwaukee area.